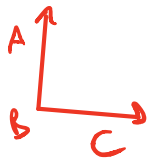
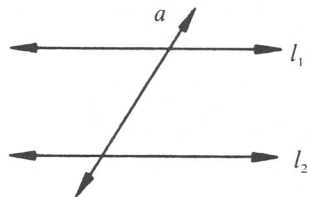


## Orientation Exercises 11

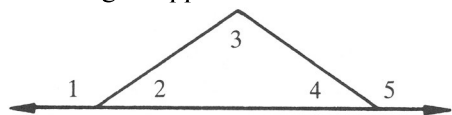


1. Which rays form the sides of  $\angle ABC$ ?
- A.  $\overline{AB}, \overline{AC}$      **D.**  $\overline{BA}, \overline{BC}$   
 B.  $\overline{AB}, \overline{CB}$      E. None of the above  
 C.  $\overline{AC}, \overline{BD}$

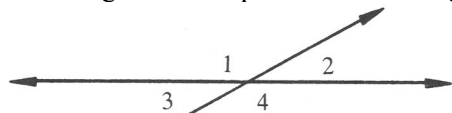
2. In the figure below, line  $a$  is:



- A. a bisector     D. perpendicular  
 B. parallel     E. an altitude  
**C.** a transversal
3. Which angles appear to be obtuse?

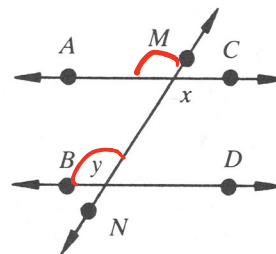


- A. 2 and 4     D. 1 and 5 only  
 B. 2, 3, and 4     E. 3 only  
**C.** 1, 3, and 5
4. Which angles form a pair of vertical angles?

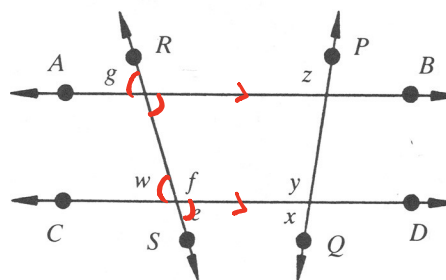


- A. 1 and 2     **D.** 4 and 1  
 B. 2 and 4     E. 1 and 3  
 C. 3 and 4
5. At how many points will two lines that are perpendicular intersect?
- A. 0     D. 3  
**B.** 1     E. 4  
 C. 2
6. If two intersecting lines form congruent adjacent angles, the lines are:
- A. parallel     D. vertical  
 B. oblique     **E.** perpendicular  
 C. horizontal

7. In the figure below, parallel lines  $\overline{AC}$  and  $\overline{BD}$  intersect transversal  $\overline{MN}$  at points  $x$  and  $y$ .  $\angle MXA$  and  $\angle MYB$  are known as:



- A. vertical angles  
 B. alternate interior angles  
 C. complementary angles  
 D. supplementary angles  
**E.** corresponding angles
8. In the figure below,  $\overline{AB} \parallel \overline{CD}$  and  $\overline{RS}$  and  $\overline{PQ}$  are straight lines. Which of the following is true?



- ~~A.~~  $g = z$      ~~D.~~  $g = x$   
~~B.~~  $g = y$      **E.**  $g = e$   
~~C.~~  $g = f$
9. The sum of the interior angles of a pentagon is:
- A.  $480^\circ$      D.  $720^\circ$   
**B.**  $540^\circ$      E.  $960^\circ$   
 C.  $600^\circ$



10. If the perimeter of a square is  $24x$ , its area is:
- A.  $81x$      D.  $48x^2$   
**B.**  $36x^2$      E.  $81x^2$   
 C.  $24x$

